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Have a great weekend!

Carolyn

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ORD continues to provide technical support to Region 8 in response to the inadvertent release of contaminated wastewater into the Animas River and the ongoing investigation of the Gold King Mine emergency. Many scientists across ORD have stepped up to offer their expertise and lab capacity, and support activities are underway in several ORD organizations. We are evaluating screening levels for the various metals released to surface water and sediment. ORD staff is covering the ORD desk at the HQ Emergency Operations Center (EOC) providing data interpretation and science translation support.

### **AIM High Recognition**

We appreciate the recognition we recently received for our new peer review process as part of your AIM High Campaign. ORD's National Center for Environmental Research Peer Review Division entered into an Interagency Agreement with HHS to become a partner in the OMB recognized Grants Center of Excellence. This allows us to tap into a host of services included an automated system to conduct peer review. We can now conduct virtual peer reviews, which eliminate travel costs and improve efficiency.

### **Workshop for Non-Targeted Analysis of Chemicals**

Next week I will join featured speaker Bob Kavlock at our [Non-Targeted Analysis Workshop](#) in RTP to give opening remarks. Because quantitative exposure data are available for only a small fraction of the tens of thousands of chemicals registered for use in the U.S., new methods are needed to generate measurement data for the chemicals that are largely unexamined. The workshop aims to bring together experts in non-targeted screening to discuss innovative methods and best practices for collecting, analyzing, interpreting, storing, and exchanging measurement data related to xenobiotic chemical exposures.

### **250<sup>th</sup> American Chemical Society (ACS) National Meeting & Exposition**

August 16-20, several ORD scientists will deliver presentations and participate in the ACS National Meeting in Boston. The theme of this year's conference is "Innovation: from Discovery to Application".

### **Keynote Address at 2015 Kansas Environmental Conference, Topeka, KS**

On August 17, ORD's Michael Gonzales will deliver a keynote presentation on the role of Green Chemistry and Green Engineering in preventing and solving current environmental challenges. The objective of this address is to educate state level regulators and environmental protection specialists on the application of green chemistry and engineering to solve environmental concerns. This annual conference provides updates on environmental issues, new technologies, regulatory information, and pollution prevention.

### **World Health Organization to be Briefed on EPA's Perspective on Air Sensors**

On August 18<sup>th</sup>, ORD's Tim Watkins will provide a brief overview of EPA's experiences with air sensors as part of the World Health Organization's (WHO) Second Consultation Meeting on the Global Platform on Air Quality and Health. The meeting is being held in Geneva, Switzerland and Watkins will be participating remotely via webinar.

### **Intermountain Energy Summit**

Lek Kadeli will be the keynote speaker at the Intermountain Energy Summit on August 18<sup>th</sup> and 19<sup>th</sup> in Idaho Falls, Idaho. The summit's focus will be on developing a shared public-private approach to energy and water nexus issues. Among the summit's other featured speakers are representatives from the U.S. Congress and U.S. Department of Energy.

### **ORD invited by Congressman Turner's Office to "Focus on the Farm" Event in Yellow Springs, OH**

At the request of Dayton, Ohio Congressman Mike Turner's office, ORD's Chris Nietch will participate as a panelist and speak about nutrient overloading and algal blooms. This event is being organized by the Congressman's office and is intended to be the first annual Focus on the Farm event. This year's topic is on water resource management and will be held at Young's Jersey Dairy Farm, Yellow Springs, Ohio on August 19.

### **Region 1 Briefing on Climate Mapping and Climate Justice**

Region 1 and ORD scientists will present *Update on Region 1's Climate Mapping Efforts, and Overview of Related ORD Climate Justice Research* to the Region 1 Global Climate Change Network on August 19<sup>th</sup>. They will provide an update on Region 1's climate mapping workgroup, questions related to the Rural Community Assistance Program (RCAP), and cross-EPA climate mapping efforts. ORD will provide an overview of the emerging area of Climate

Justice and planned ORD Climate Justice research that is relevant to New England and Region 1's *Making a Visible Difference in Communities* Projects.

### **STEM Outreach Program to share hands-on activities with local education and industry leaders**

RTP 180<sup>0</sup> is a monthly forum for members of the RTP community to gather and share what is happening in their worlds. This month's RTP 180<sup>0</sup> will feature EPA-RTP's STEM Outreach Program and over 200 area employees are expected to attend. The presentation, *STEM in the Triangle*, will cover how the RTP community is engaging local students and will highlight several activities at interactive stations. The presentation will demonstrate how EPA-RTP employees are transforming research into hands-on activities to help students and the community better understand the importance of protecting human health and the environment.

### Last Week

### **RESES Proposals Selected for Funding**

On August 10<sup>th</sup>, ORD announced the Regional/ORD collaborative projects to be funded in FY2015 through the Regional Sustainability and Environmental Sciences Research Program (RESES). ORD is able to fund 8 of the 25 proposals submitted this year, for a total of \$935k. The RESES Program is designed to further Regional/ORD partnerships that inform and assist communities in reaching sustainable environmental outcomes.

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### **Presentation at Wildfire Workshop in Colorado Springs, CO**

Dan Costa gave a presentation at the Wildfire Smoke Stakeholders Workshop held at Colorado State University (CSU) on Aug. 12. In his presentation, Costa addressed air quality issues associated with wildfires with perspective on climate change.

### **Publications**

### **ORD Article Published in *LakeLine* Special Issue Focused on HABs and EPA**

An article by ORD authors Betty J. Kreakie, Jeffrey W. Hollister, Farnaz Nojavan, W. Bryan Milstead and Lahne Mattas-Curry appeared in the Summer 2015 issue of *LakeLine*, a publication of the North American Lake Management Society.

“Computational Ecology & Open Science: Tools to Help Manage Cyanobacteria in Lakes” introduces concepts of computational ecology and open science and describes why they will advance the understanding of cyanobacteria blooms and help improve predictions of bloom occurrences. <https://www.nalms.org/media.acux/beb75c9c-f812-4753-b888-79864899c6d6> (page 24).

## Hydraulic Fracturing Paper

The technical paper: “*Scenario Analysis of the Impact on Drinking Water Intakes from Bromide in the Discharge of Treated Oil and Gas Wastewater*,” was published on August 13 online in the American Society of Civil Engineer’s *Journal of Environmental Engineering*. The paper presents the results of modeling the dispersion of bromide in surface water of streams and rivers using generalized scenarios that illustrate disposal of treated oil and gas waste water. The study found that discharging treated hydraulic fracturing wastewaters can contribute to elevated levels of bromide downstream at drinking water intakes. Mitigation measures to help reduce bromide concentrations at drinking water plants include reducing the effluent concentration or discharge rate/volume, pulsing discharges, or limiting discharges during low flow conditions in the stream/river. (<http://ascelibrary.org/doi/abs/10.1061/%28ASCE%29EE.1943-7870.0000968>); full citation: Weaver, J., Xu, J., and Mravik, S. (2015). "Scenario Analysis of the Impact on Drinking Water Intakes from Bromide in the Discharge of Treated Oil and Gas Wastewater." *J. Environ. Eng.* , [10.1061/\(ASCE\)EE.1943-7870.0000968](https://doi.org/10.1061/(ASCE)EE.1943-7870.0000968).